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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/803,825	03/12/2001	Andrew D. Dingsor	RSW920000169US1	1006

7590 06/29/2004

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EXAMINER

COLLINS, SCOTT M

ART UNIT	PAPER NUMBER
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2143

DATE MAILED: 06/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/803,825	Applicant(s) DINGSOR ET AL.	
	Examiner Scott M. Collins	Art Unit 2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 March 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. Claims 1-21 examined.
2. It is hereby acknowledged that the following papers have been received and placed of record in the file: Formal Drawings on 04/23/2001 and Request for Corrected Filing Receipt on 05/08/2001.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Bector et al., U.S. Patent Number 6,687,732 (herein referred to as Bector).
5. Referring to claims 1, 2, and 4, Bector has taught a method of processing a client packet from a client in a NAT system including a NAT machine and a plurality of servers (Bector abstract; column 5, lines 32-41; and figure 1), the method comprising the steps of:
 - a. preparing a response packet responsive to the client packet (Bector figures 1 and 2A; column 6, 38-43);
 - b. determining whether translation instructions are stored in said one of the servers (Bector figure 2B, elements 228, 230);

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- c. performing, by one of the servers, a translation operation on the response packet to produce a translated response packet (Bector figure 2A, elements 120, 202, 204, 206; figure 2B, elements 230 and 234; column 6, lines 61-67); and
 - d. transmitting the translated response packet directly to the client, thereby bypassing the NAT machine (Bector figure 2A, elements 202, 204, 206; figure 2B, element 236; column 5, lines 25-31; and column 6, lines 38-55).
6. Referring to claim 3, Bector has taught the method further comprising sending the response packet from said one of the servers to the NAT machine if the determining step indicates that the translation instructions are not stored in said one of the servers (Bector figure 2B, elements 230 and 234; column 9, lines 14-30).
7. Referring to claim 5, Bector has taught the method further comprising:
 - a. determining, by the NAT machine, if predetermined criteria have been satisfied for sending the translation instructions to said one of the servers (Bector column 9, lines 4-13); and
 - b. sending the translation instructions to said one of the servers if the predetermined criteria have been satisfied (Bector figure 2B, elements 230 and 232; column 9, lines 14-25).
8. Referring to claim 6, Bector has taught the method wherein the translation instructions identify information to be modified in a header of the response packet (Bector column 5, lines 25-31; and column 20, lines 8-13).
9. Referring to claim 7, Bector has taught the method wherein the performing step includes:

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- a. evaluating a header of the response packet to identify a current IP destination address and a current destination port indicated in the header (Bector figure 2B, element 226; column 5, lines 25-31; and column 8, line 63 – column 9, line 3);
 - b. determining, using the translation instructions, a client IP address and a client port associated with the current IP destination address and the current destination port (Bector figure 2B, element 228; and column 9, lines 4-25); and
 - c. modifying the header of the response packet to designate the client IP address and client port as the current IP destination address and the current destination port, respectively (Bector figure 2B, element 234; column 9, lines 26-30; and column 20, lines 8-13).
10. Referring to claim 8, Bector has taught the method further comprising:
 - a. transmitting, by the NAT machine, instructions to stop the translation operation (Bector figure 2C; and column 9, line 63 – column 10, line 19); and
 - b. transmitting, by said one of the servers, the response packet to the NAT machine according to said instructions (Bector figure 2C; and column 9, line 63 – column 10, line 19).
11. Claims 9-14 do not recite limitations above the claimed invention set forth in claims 1-4, and 6-8 and are therefore rejected for the same reasons set forth in the rejection of claims 1-4, and 6-8 above. The only difference in the sets of claims is that claims 9-14 detail the system used for accomplishing the method of claims 1-4, and 6-8.
12. Claims 15-21 do not recite limitations above the claimed invention set forth in claims 1-8 and are therefore rejected for the same reasons set forth in the rejection of claims 1-8 above. The

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only difference in the sets of claims is that claims 15-21 detail the computer program product embodied on a computer readable medium for accomplishing the method of claims 1-8.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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|----|-------------------|------------------------------|
| a. | Kasprzyk et al. | U.S. Patent Number 5,287,103 |
| b. | Vacon et al. | U.S. Patent Number 5,227,778 |
| c. | Attanasio et al. | U.S. Patent Number 5,371,852 |
| d. | Aravamudan et al. | U.S. Patent Number 6,006,272 |
| e. | Mayes et al. | U.S. Patent Number 5,793,763 |

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott M. Collins whose telephone number is 703.305.7865. The examiner can normally be reached on Mon.-Thurs. 7:30 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Wiley can be reached on 703.308.5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

smc

June 24, 2004


DAVID WILEY
SUPERVISORY PATENT EXAMINER
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